

Search your entire codebase



GitLab is the DevSecOps Platform that empowers organizations to maximize the overall return on software development by delivering software faster and efficiently, with integrated security and compliance. With GitLab, every team in your organization can collaboratively plan, build, secure, and deploy software to drive business outcomes faster with complete transparency, consistency, and traceability.

Executive summary

Developers are dealing with more complexity than ever: massive codebases, multiple languages and file formats, and a wide variety of developer tools. Understanding code is a vital part of the developer's workflow, but current tools are failing developers. Developers are constantly blocked as they try to search for answers while coding, costing precious engineering time and productivity. Without addressing this complexity, enterprises struggle to move fast and innovate.

Sourcegraph is a code intelligence platform that makes codebases intelligible by semantically indexing and analyzing all of an organization's code to provide developers and engineering leaders with a complete understanding of their codebase. Developers use Sourcegraph to understand, fix, and automate across the entire codebase, regardless of how complex it is and across every code host, language, and repository.

75%

of engineering managers say their teams avoid updating code because of fear of breaking dependencies.

99%

of developers say they would benefit from additional code search capabilities.

*Dimensional Research, Aug. 2020

Solution overview

Sourcegraph's native GitLab integration provides code search and intelligence.

Code Search and navigation: Answer questions about your codebase and get unblocked faster, without waiting for context from teammates. With Code Search and precise code navigation, developers can find code to reuse, understand if they are impacted by a vulnerability, and quickly locate the root cause of issues when every second counts.

Batch Changes: Automate large-scale code changes across the entire codebase such as updating legacy code, removing outdated patterns, and fixing critical security issues.

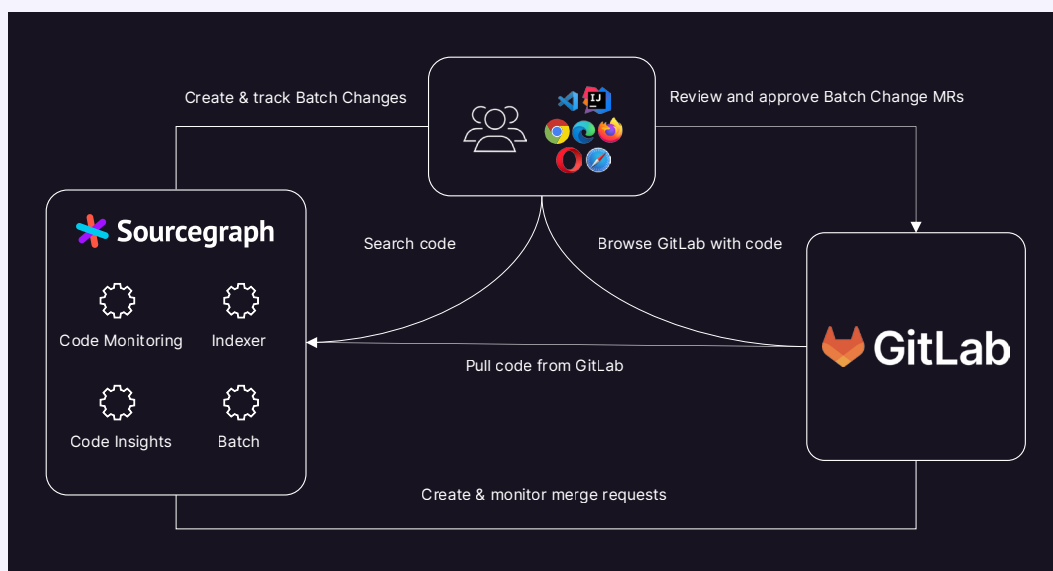
Code Insights: Transform your code into a queryable database and create visual dashboards in seconds, allowing you to track migrations, code smells, ownership, versions, and more.

Code Monitoring: Get alerted whenever a specified pattern is matched.

Solution diagram

Together with GitLab, Sourcegraph dramatically improves developer productivity.

1. Sourcegraph indexes all of your source code in GitLab including metadata about each commit to enable code intelligence.
2. Modify code that matches specific patterns across all of your GitLab repositories while making it easy to track the progress using Sourcegraph's Batch Changes.
3. Utilize filters and regular expressions to search and browse any code.
4. Quickly access code intelligence in Sourcegraph – and while browsing and navigating GitLab.



Solution benefits

Sourcegraph's code intelligence platform helps developers build better software by freeing up their time to focus on complex problems:

Understand code: Uncover answers, gather context, and understand dependencies quickly and without interrupting teammates.

Improve code security: Find, track, and fix vulnerable code in minutes, and have confidence you have resolved every instance of the vulnerability. Proactively catch anti-patterns and enforce standards across production configurations.

Accelerate codebase-wide changes: Make large-scale code changes across code hosts and repositories. Track and manage all of your changes until each is merged.

Track everything in your codebase: Transform your code into a queryable database to create visual dashboards in seconds that track package use, migrations, code smells, and more.

"Sourcegraph is an ingrained part of my daily process at SoFi. With Sourcegraph, our engineers can understand all of the repercussions of committing a change to a service that is exposed to other services."

Ursula Robertson, Engineering Manager, SoFi

[Case study on SoFi complementing GitLab with Sourcegraph](#)

Solution use cases



Code Security

Find every instance of a vulnerability. Automate MR creation to fix vulnerabilities. Monitor commits for introduction of risky patterns.



Incident response

Pinpoint the code responsible for incidents and find the root cause. Reduce time to remediation by providing all relevant code details.



Code reuse

Search your entire codebase to discover existing code for reuse. Automate MR creation for global updates. Understand code reuse trends within the team.

About Sourcegraph

Sourcegraph builds universal code search for every developer and company so they can innovate faster. We help developers and companies with billions of lines of code create the software you use every day.

For more information, e-mail us at partner@sourcegraph.com or visit our [website](#).

About GitLab

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For more information, email us at: alliance@gitlab.com or visit us [here](#).

